XIII. *A Caſe wherein Part of the* Lungs *were coughed up. Preſented to the* ROYAL SOCIETY *by* William Watſon, F. R. S.

THomas *Halſey*, aged about 70, of a ſhort Make, and pretty fat, being in a tolerably good State of Health, (unleſs, as for ſome Years paſt, troubled with frequent coughing upon Motion) was ſeized *Sept.* 23. 1740. with a violent Fit of Coughing, in which he fell down, as the By-ſtanders thought, dead, and diſcharged near a Quart of Blood at his Mouth, in a very large Stream, mixed with many Portions of a ſeemingly grumous Matter. His coughing Fit continued near Three Minutes. He revived upon bleeding at the Arm, and, being put to-bed, recovered his Senſes, and (as he ſaid) was perfectly eaſy, and free from Pain, except upon Coughing, which as often as he did, he ſpit Blood viſibly arterial from its florid Colour. About Four Hours after the Firſt Fit, he was taken with a Second, attended with the ſame Symptoms as the Firſt; and expired in it. Upon examining the Blood, which he brought up at his Death, I found, in Pieces of different Sizes, near Three Ounces of the Subſtance of the Lungs, not ulcerated, or any ways diſtempered; and I have Reaſon to believe there was near the ſame Quantity of the Lungs thrown up during the Firſt Fit of Coughing. The Pieces were eaſily diſtinguiſhable from grumous Blood, by their connecting Membrane, the *Acini* in the internal Part, and their ſpecific Gravity.

Upon

Upon examining the Contents of the *Thorax* after Death, the Right Lobes of the Lungs were found, of a good Colour, and no-ways injured: In the Left Cavity of the *Thorax*, there was a large Quantity of extravaſated Blood; the inferior Left Lobe adhered ſtrongly both to the *Pleura* and *Mediaſtinum*, and was ſomewhat decayed; but of the ſuperior Left Lobe, the upper Part next the *Trachea* adhered to the *Pleura* for about Two Inches; and the Remainder, where there had been no Adheſion, (as I could perceive from the ſmooth Surface of the *Pleura*) was torn away by Pieces, and diſcharged in Coughing. As the greateſt Part of the Left Side of the Lungs was tied down to the circumjacent *Membranes*, the Perſon being old, and the whole Force of the *Parietes* of the *Abdomen*, *Diaphragm*, &c. in the Action of coughing, was unequally exerted upon that Part that did not adhere, and which, by the Violence of the Preſſure, was torn off from the reſt, and diſcharged, as I juſt now mentioned; it is worthy Obſervation, how ſmall the Degree of Senſibility is in the Lungs; that a Perſon ſhould loſe ſo much of their Subſtance, as in this Inſtance, upon the Firſt Fit; and yet, upon Recovery of his Senſes, to complain of little or no Pain from ſuch Dilaceration, when even the Bite of an Inſect upon the Surface of the Body is attended with ſo much.

The Adheſion of this Man's Lungs explained likewiſe the Cauſe of his frequent Coughing for ſome Years before his Death.

XIV. *An*